

AMENDMENTS

In the Claims

1-94. Cancelled

95. (Currently Amended) An apparatus ~~configured to customize a product and comprising a computer-readable storage medium encoding logic blocks of a program code configured to be executed by a processor, the logic blocks~~ comprising: a computer-readable storage medium comprising a program code encoded therein,

wherein

the program code is configured to be executed by a processor,

the program code comprises a plurality of logic blocks,

the logic blocks are configured to customize a product, and

the logic blocks comprise

a first logic block configured to create a customizable product, wherein  
the customizable product ~~including~~ comprises a set of one or  
more attributes ~~to define , and~~  
the set of one or more attributes defines the customizable  
product;

a second logic block configured to assign the customizable product to a  
customizable product class, wherein

the customizable product class is a parent class of a hierarchy

~~defining ,~~

the hierarchy is configured to define a configurator, ~~[[and]]~~

the configurator is configured to reference the hierarchy to permit

~~a user to configure a~~ configuration of the customizable  
product ~~for purchase , and~~

the configuration of the customizable product is performed  
using a customizable user interface (“UI”);

a third logic block **configured** to add a component product class to the customizable product class, wherein  
the component product class is a subclass of the customizable product class, **[[and]]**  
the component product class comprises one or more component products ~~selectable for adding~~ ,  
**each of the one or more component products is configured to be selected using the customizable UI, and**  
**each of the one or more component products is configured to be added** to the customizable product , **if the each of the one or more component products is selected using the customizable UI**;

a fourth logic block **configured** to provide natural language templates, wherein  
each template contains a fill-in-the-blank sentence in a natural language syntax;

a fifth logic block **configured** to add a customizable class rule to the customizable product class, wherein  
the customizable class rule prohibits the selection of one or more component products for addition to the customizable product after selection of a specific component product for addition to the customizable product, and  
the customizable class rule is generated by  
selecting one or more natural language templates, and  
filling in each blank in each selected template with one or more of  
**[[said]] the** customizable product class,  
**[[said]] the** component product class,  
an attribute of **[[said]] the** customizable product class,  
an attribute of **[[said]] the** component product class,

a mathematical expression, and  
a non-selected natural language template; and  
a sixth logic block **configured** to map ~~[[a]]~~ **the** customizable ~~user~~  
~~interface (“UI”)~~ **UI** to the customizable product class, **wherein**  
the customizable UI **is configured** to provide access structure to  
the configurator.

96. **(Currently Amended)** The apparatus of claim 95, wherein  
the component product class ~~includes~~ **comprises** component product subclasses.
97. **(Currently Amended)** The apparatus of claim 95, wherein  
the component product class ~~inherits~~ **is configured to inherit** the attributes of the  
customizable product class.
98. **(Currently Amended)** The apparatus of claim 95, further comprising:  
a seventh logic block **configured** to add one or more component product classes  
to a port; and  
an eighth logic block **configured** to add the port to the customizable product  
class, **wherein**  
the port **is configured** to allow the configurator to classify a group of  
component products.
99. **(Currently Amended)** The apparatus of claim 98, wherein  
the port ~~includes~~ **comprises** a cardinality attribute, **and**  
the cardinality attribute **is configured to be used** to constrain the number of  
component products ~~[[,]]~~ **that are** associated with the port **and** selectable  
by the configurator.
100. **(Currently Amended)** The apparatus of claim 99, wherein  
the cardinality attribute ~~includes~~ **comprises** a minimum cardinality and a  
maximum cardinality,

- the minimum cardinality **is configured** to constrain the minimum number of component products to be added by the configurator, **and** the maximum cardinality **is configured** to constrain the maximum number of component products to be added by the configurator.
101. **(Currently Amended)** The apparatus of claim 99, wherein the cardinality attribute ~~includes~~ **comprises** a default cardinality, **and** the default cardinality defines a quantity of the component product class to be added by the configurator.
102. **(Currently Amended)** The apparatus of claim 95, wherein the class rule ~~includes~~ **comprises** a collection of expressions, **and** the expressions ~~include~~ **comprise**  
a property path,  
a constant, and **[[a]]**  
**an** operator.
103. Cancelled
104. **(Currently Amended)** The apparatus of claim 95, wherein the class rule is a subclass of the customizable product class.
- 105-112. Cancelled
113. **(Currently Amended)** The apparatus of claim 95, wherein the component product class ~~includes~~ **comprises** a static attribute, **and** the static attribute is not associated with a parent class.
114. **(Currently Amended)** The apparatus of claim 95, wherein the component product class, customizable class rule, and customizable UI are object oriented classes.

- 115. **(Currently Amended)** The apparatus of claim 95<sub>2</sub> wherein the customizable product comprises ~~[[a]]~~ **an** object oriented structure.
- 116. **(Currently Amended)** The apparatus of claim 95<sub>2</sub> wherein the customizable product ~~includes~~ **comprises** versioning.
- 117. **(Currently Amended)** The apparatus of claim 95<sub>2</sub> wherein the configurator is stored in a data store.
- 118. **(Currently Amended)** The apparatus of claim 95<sub>2</sub> wherein the customizable UI is configured to allow customization of a presentation of component products.
- 119. **(Currently Amended)** The apparatus of claim 118, wherein the customizable UI is configured to be customized for a ~~particular~~ product line.
- 120. **(Currently Amended)** The apparatus of claim 118, wherein the customizable UI is configured to be customized for a ~~particular~~ customer base.
- 121. **(Currently Amended)** The apparatus of claim 95<sub>2</sub> wherein the customizable UI is configured to allow a runtime session to dynamically generate a UI from a custom UI class.